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(54) Title: POLYPROPYLENE RESIN COMPOSITION

(57) Abstract: A polymer blend includes a first random copolymer of propylene and one or more C_2 - C_{20} α -olefins other than propylene lene having a melting point of above 116°C and up to about 145°C and which constitutes from about 60 weight percent to about 95 weight percent of the composition, and a second random copolymer of propylene and one or more C₂-C₂₀ α-olefins other than propylene having a melting point of from about 70°C to no more than 116°C and which constitutes from about 5 weight percent to about 40 weight percent of the composition. The polymer blend includes a xylene soluble fraction having a weight average molecular weight of above about 100 kg/mol and an intrinsic viscosity of above about 1.0 dl/g.



International Application No PCT/US2004/014652

A CLASSII	EICATION OF BUD IFOT MATTER		PC1/032004/014652		
ÎPC 7	FICATION OF SUBJECT MATTER C08L23/14				
	o International Patent Classification (IPC) or to both national c	elassification and IPC			
	SEARCHED				
196 /	cumentation searched (classification system followed by class				
	ion searched other than minimum documentation to the exten				
EPO-Int	ternal, WPI Data	and base and, where practical, s	earch terms used)		
C. DOCUME	NTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of	the relevant passages	Relevant to claim No.		
X	WO 00/11076 A (FERRARI PAOLO ANTEO (IT); MONTECH USA INC (2 March 2000 (2000-03-02) cited in the application	1-12,26			
Y	example 1		13-24, 27-32		
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A	EP 0 483 523 A (HIMONT INC) 6 May 1992 (1992-05-06) cited in the application examples 1,2	1-24, 26-32			
		-/			
	documents are listed in the continuation of box C.	X Patent family men	nbers are listed in annex.		
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 		"X" document of particular cannot be considered involve an inventive st "Y" document of particular cannot be considered cannot be considered document is combined ments, such combinat in the art.	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination beling obvious to a person stilled.		
Date of the actual completion of the international search			itemational search report		
	October 2004	1	0 8 FEB 2005		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Schmidt,	н		
n PCT/ISA/210 ((second sheet) (January 2004)		··		

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C.(Continua	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	PC1/US2004/014652		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
А	EP 0 263 718 A (MITSUI PETROCHEMICAL IND) 13 April 1988 (1988-04-13) cited in the application tables 1-4	1-24, 26-32		
PCT/ISA/210 ((continuation of second sheet) (January 2004)			

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INTERNATIONAL SEARCH REPORT

International application No. PCT/US2004/014652

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-24, 26-32
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-24,26-32

as far as compositions comprising blends of polypropylene a) and b) are concerned

2. claim: 25

as far as compositions comprising fractions a)-e) are concerned

Information on patent family members

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Form PCT/ISA/210 (patent family annex) (January 2004)